Hopewell Furnace National Historic Site www.nps.gov/hofu

Teacher's Guide



Hopewell Furnace Chronology

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B.C.	3000	Iron first produced in Asia Minor (Turkey)
D.C.	2000	Iron produced in Nubia (East Africa)
	1800	First iron weapons made by the Hittites (Turkey)
	1050	Iron produced in Greece
	790	Iron produced by Nok Culture (Nigeria)
	512	Iron produced in China
	400	Iron produced by Celts of Southern Britain
	300	Iron produced by Romans
(A.D.)	1000	First iron produced and forged in North America by Vikings in Greenland and northern Newfoundland (Canada)
	1543	Survivors of Spanish expedition led by Hernando DeSoto produce first iron forged in future United States (Arkansas)
	1621	First blast furnace in British colonies built at Falling Creek, Virginia - destroyed by Native Americans before going into production
	1644	First successful iron works in British colonies established at Braintree, Massachusetts
	1710	Coke is invented in England - used as fuel in iron furnaces
	1716	Thomas Rutter builds bloomery forge near what is now Pottstown, Pennsylvania
	1720	Thomas Rutter builds Colebrookdale, the first blast furnace in the American colonies, near Pottstown, Pennsylvania
	1732	Samuel Nutt's bloomery grows into famous Coventry Iron Works (Coventryville, Pennsylvania) the first steel furnace in Pennsylvania
	1740	Sands Forge on Hay Creek in Berks County started by William Bird, father of Mark Bird, first owner of Hopewell Furnace
	1742	Benjamin Franklin invents the Pennsylvania Fireplace
	1744	Hopewell Forge built by William Bird

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	1750	Iron Act, limiting the ability of colonial iron industry to produce finished products, passed by British Parliament
(A.D.)	1761	William Bird dies leaving estate to son Mark
	1762	At Carron Ironworks in Scotland the first cast iron is converted into malleable iron
	1771	Hopewell Furnace built by Mark Bird, using slaves and free laborers
	1772	Oldest known product produced by Hopewell Furnace, a six-plate stove
	1775	Beginning of the American Revolution
	1776	Congress advances Mark Bird \$2,000 to cast cannon
	1777	The Board of War discharges Hopewell Furnace workmen from militia, stating their work at an iron furnace was more important than their service in the militia
	1778	Mark Bird ships a thousand barrels of flour down the Schuylkill River to Washington's troops at Valley Forge
	1780	Gradual Emancipation Act passed in Pennsylvania (most slaves in Pennsylvania worked in iron industry)
	1781	General Cornwallis surrenders to General Washington at Yorktown, ending American Revolution
	1786	Because of debt from war and poor economy, Mark Bird puts Hopewell Furnace up for sale; no buyer found
	1788	Hopewell Furnace property auctioned off and Mark Bird flees to North Carolina to escape remaining creditors
	1800	Daniel Buckley and his brothers-in-law Thomas and Mathew Brooke purchase Hopewell Furnace for 10,000 pounds sterling; 5,000 acres, two mines, and the furnace are included
	1807	Jefferson enacts U.S. Embargo Act, limiting trade with Britain and France
	1808	Buckley-Brooke partnership closes Hopewell Furnace because of trade embargo and legal problems with William Penn's heirs over land grants
	1815	Congress enacts protective tariffs
	1815	Opening of the Schuylkill and Union Canals
	1816	Mark Bird dies in North Carolina
	1816	Hopewell Furnace goes back in blast, after being shut down for eight years
	1826	Hopewell Furnace produces door frames and peepholes for Eastern State Penitentiary in Philadelphia

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	1828	Hot blast iron smelting developed in Scotland (preheated air was blown into furnace) producing more iron with less fuel
A.D.	1830- 1838	The most prosperous period at Hopewell Furnace occurs under the guidance of ironmaster Clement Brooke, son of Mathew Brooke; in 1836-37 the furnace is operated continuously for 445 days and produces 1,160 tons of castings, earning over \$40,000 gross for the owners of the furnace; furnace workers earn from \$200 to \$300 a year
	1837	Bank panic; depressed economy causes major setback to iron industry
	1838	Pennsylvania legislature authorizes corporations to make iron using coal as fuel, contributing to decline at Hopewell Furnace
	1830s- 1850s	Runaway slaves on the Underground Railroad occasionally use Hopewell Furnace as a stop on their journey from the South
	1839	Opening of the Philadelphia and Reading Railroad; Hopewell Furnace makes its first shipment of stoves by rail
	1844	Stove casting ends at Hopewell; only pig iron is produced from 1844 until 1883
	1853	Anthracite furnace constructed and put into blast at Hopewell Furnace - proves to be unsuccessful and shut down in less than two years
	1861- 1865	The Civil War; the price of pig iron (the only product made at Hopewell Furnace during this time) rises from \$30/ton to over \$90/ton
	1861	Morrill Tariff Act places strict duties upon imported iron and steel; helps Hopewell Furnace continue to produce iron during and after the Civil War
	1883	Hopewell Furnace shuts down after 112 years of operation
	1935	Hopewell Furnace purchased by the U.S. Government; Civilian Conservation Corps begins restoration of furnace community
	1938	Hopewell Village established as National Historic Site, becoming the first site in the National Park Service to commemorate our industrial history
	1985	Hopewell Village's name changed to Hopewell Furnace National Historic Site
	Presen	t Approximately 100,000 visitors a year tour Hopewell Furnace National Historic Site

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